



For stove ranges:

Acorn View

Ecoburn - Series 2

Ecoburn Inset - Series 2

Ecoburn^{Plus}

Ecoburn^{Plus} Inset

i Series

Signature **Flexifuel**

Signature **Flexifuel** Inset

PLEASE RETAIN THIS GUIDE FOR FUTURE REFERENCE



More than 20 years experience has been put into the development of our stoves to ensure ultimate performance and years of trouble free use and enjoyment.

Every detail of the stove has been carefully designed and engineered which is why we are so confident in the reliability of our products.

Should you have any questions about our stoves that are not covered by this manual, please contact the Arada retailer in your area, or call our technical support department on

08448 567181.

All Arada stoves are tested to European Standard EN 13240.

WARNINGS

Pure Petroleum coke or Bituminous house coal must not be burned in this appliance. The use of these fuels will invalidate the appliance guarantee.

Arada recommends the use of HETAS approved smokeless fuels which have been deemed suitable for use on closed appliances, including multi fuel stoves.

If in doubt, contact The Solid Fuel Association, telephone: 0845 601 4406 / 01773 835400 or visit www.solidfuel.co.uk

It is a legal requirement that the installation of all new or replacement, wood or solid fuel heating appliances must obtain building control approval from your local authority. This can be done by using a qualified heating engineer, affiliated to a government approved competent persons scheme such as operated by HETAS.

If in doubt, contact HETAS limited, telephone: 0845 634 5626 or visit www.hetas.co.uk

A fireguard conforming to BS 8423:2002 should be used in the presence of children and old or infirm people. Do not use aerosol sprays or any other flammable materials near the appliance when in use.

Arada Ltd will not be responsible for any consequential or incidental loss or injury however caused. Arada has a policy of continuous product development and therefore we reserve the right to amend any product specification without prior notice.

OPERATING YOUR STOVE

Arrow stoves are designed to be operated with the fire door(s) closed at all times, apart from refuelling (when alight) or cleaning (when cold).

Never leave the appliance unattended for an extended length of time with the door(s) open.

Visit our Youtube channel for our 'how-to' series of videos:

<http://www.youtube.com/aradastoves>

FUEL TYPES

WOOD

Any type of wood is suitable provided it is well seasoned and has a moisture content below 20%. This usually implies that the timber has been suitably stored to allow moisture to evaporate for at least nine months in the case of soft wood, and at least twenty four months in the case of hard wood. We recommend that for general burning wood should be split into logs of no more than 100mm (4") diameter.

WARNING: Wet wood must not be used as this will greatly contribute to the creation of tar and creosote which may, in extreme cases, run down the chimney in liquid form. This will seriously damage both the chimney and the appliance and increase the risk of a chimney fire.

Please Note: If you have sticky tar inside the appliance or chimney your wood is 'green' or too wet.

PAPER – Paper will burn successfully. Burn dry paper only or chimney damage will occur.

WARNING: NEVER BURN PLASTICS, HOUSEHOLD WASTE OR LIQUID FUELS IN YOUR STOVE.

SOLID FUEL

Arada recommends the use of HETAS approved smokeless fuels which have been deemed suitable for use on closed appliances, including multi fuel stoves. These include:

Homefire Ecoal

Homefire Ecoal Instant Light

Homefire

Homefire Ovals

Supertherm

Ancit

Phurnacite

Taybrite

Newflame

Maxibrite

Sunbrite

Pureheat



For additional advice on fuels, please refer to The Solid Fuel Association.

LIGHTING THE FIRE

Prior to lighting the stove for the first time, check with the installer that:

- Installation and all building work is complete. (Refer to the installation guide.)
- The chimney is sound, has been swept and is free from obstruction.
- Adequate provision for combustion air has been made, i.e. a permanent vent of at least 550mm sq. per kW of rated output above 5kW, is fitted in the room in which the appliance is installed.
- That Building Regulations and any local by-laws have been followed during installation. See separate installation guide.

USER GUIDE

- All firebox liner panels and throat plate are in place.
- That the chimney draw has been checked and is within specification. With the chimney warm, the draught should be between 1-2 mm water gauge or 0.1 to 0.2 mbar.
- A Carbon Monoxide detector is correctly installed in the same room as the appliance.

WARNING: An over drawing chimney can cause over firing, resulting in damage to the appliance.

Ensure that you have read and understood these instructions before lighting the fire.

Always wear suitable protective fire gloves when refuelling your stove, such as the Arada glove supplied with your stove.

We recommend that you light a small fire for the first few days of use to cure the paint and allow the castings to relax. It is normal to experience some odours whilst the paint cures. These are non-toxic and temporary.

AIR INLET CONTROLS

(iSeries stove users please see Page 7 for air inlet controls.) Your stove has two air inlet controls. These are located either on the stove body or the door.

The primary air inlet providing under draught to the base of the fire chamber and the airwash system (secondary air) providing overdraught. *The exact controls may differ from those illustrated in this manual but will work in the same way.*

PRIMARY AIR

Air enters the appliance through the control on the bottom of the fire door. Your stove has a single control knob which slides left to right.

Sliding the knob to the right, see Fig. 1. will increase the amount of air intake to the stove.

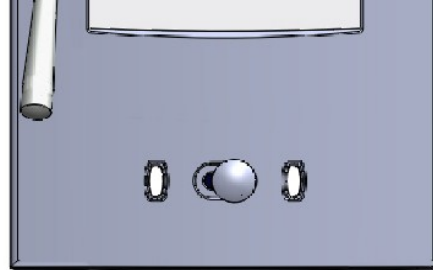


Fig. 1.

To decrease, push the slider to the left, see Fig. 2.



Fig. 2.

AIRWASH SYSTEM / SECONDARY AIR

The airwash has an internal sliding plate with slots, housed in a cover plate, and is located above the fire door. Sliding the control knob to the **RIGHT** as far as it will go, achieves the fully open position, see Fig. 3.



Fig. 3.

Sliding it to the **LEFT** will shut off the air inlet slots as shown in Fig. 4.



Fig. 4.

BURNING WOOD

- On stoves with the **Flexifuel** system, the riddling lever should be pushed in.
- Set the fire by using crunched up newspaper and place a layer of dry kindling wood on top of this.
- The use of two or three fire lighters may assist to light the kindling.
- Set the primary air and airwash controls to the fully open position.
- After the kindling has caught light, you should leave the fire door ajar by about 20mm. This will aid flue draw.
- The flue draw should be established after five minutes, and the kindling reduced to form an ember bed.
- Carefully load the stove with well seasoned wood and close the fire door.
- After ten to fifteen minutes, regulate the airwash control, typically reduce to approximately half way.
- Close the primary air control as generally no air from below the grate is required when burning wood.

Please Note: The high temperature paint acquires durability by being “cured” during the initial firings of the appliance. It will give off fumes which are non toxic, but certain persons may find they have an unpleasant or irritant effect. Ensure that the surrounding area is well ventilated during this time.

BURNING SOLID FUELS

Only applicable to multi fuel and **Flexifuel** stoves.

- On stoves with the **Flexifuel** system, the riddling lever should be pushed in.

- Set the airwash to one quarter open.
- Set the primary air inlet to fully open.
- Light as with wood, with kindling and fire lighters.
- Once flue draw has been established, after about five minutes, carefully load the stove with fuel and close the door.
- When the fire is well alight regulate the burning rate by controlling the primary air inlet control.
- The airwash should be opened sufficiently to keep the door glass clean.

Whilst burning solid fuel it can be beneficial to occasionally riddle the grate bars so any burnt fuel will fall between the grate bars into the ash pan below. This will ensure a good under draught is maintained.

WARNING: Properly installed, with a suitable flue or chimney, operated and maintained correctly, this appliance will not emit fumes into the dwelling.

Occasional fumes when de-ashing and refuelling may occur. However, persistent fume emission is potentially dangerous and must be investigated by a HETAS registered installer.

Stop using the appliance if you smell fumes or see smoke escaping.

If fume emission does persist, the following immediate actions should be taken:

- Open doors and windows to ventilate room.
- Let the fire die or extinguish and safely dispose of fuel from the appliance.
- Check for flue or chimney blockage, and clean if required.

Seek expert advice from your HETAS registered installer. Do not attempt to re-light the fire until

USER GUIDE

the cause of the fume emission has been identified and corrected.

MULTI FUEL OR FLEX/FUEL GRATE

The grate in your Aarrow stove comprises of a series of reciprocating cast iron bars seated on a pivoted comb. These should come pre-assembled in your new stove.

All bars in the grate are identical, but every other bar is turned 180 degrees, with the ends of the bars marked 'H' sitting on the high sections of the comb, and the ends marked 'L' sitting on the low sections.

The riddling lever, either on the side or front of the stove, can be operated with the stove operating tool to riddle ash into the ash pan below. Only riddle the stove with the door closed and stop once red embers begin to fall into the ash pan.

After extended use it may be necessary to replace some of the grate bars. Periodic inspection of the bars is recommended and any damaged bars replaced. Also check for obstructions that may prevent the operation of the riddling mechanism.

DOOR GLASS

The door glass should remain clear during normal burning. However under certain conditions, such as burning at a low rate, using damp wood or overnight burning, the glass may become somewhat blackened. To remedy this, operate the appliance at a fast rate. Alternatively when the stove is cold, open the door and clean the inside face of the glass with a damp cloth or with glass cleaner (available from stove stockists and online at www.aradastovesandspares.com).

REDUCED BURNING

When wood is burnt slowly in a closed appliance, it produces moisture and tar, which will create condensation and deposits in the chimney. This effect can be minimised by burning hard for a short period, fifteen to twenty minutes twice a day.

Please Note: To avoid chimney problems your appliance should not be burnt at a reduced burn rate without a period of fast burning.

OVER FIRING & CHIMNEY FIRES

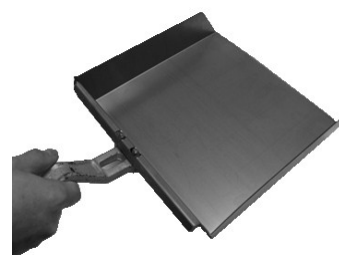
DO NOT over fire your appliance. Firing the stove at maximum for prolonged periods may result in over-firing. If the chimney connector or casing glows red the appliance is being over-fired and this may result in a chimney fire.

ASH REMOVAL

The appliance will require ash to be removed periodically but an ash bed of approximately 20mm (3/4") should be maintained. Care must be taken not to burn hands or household objects with falling embers.

The ash pan should be emptied when the level of ash reaches the top of the ash pan. On no account should the ash be allowed to build up to touch the underside of the grate bars, as this will greatly reduce the life span of the grate.

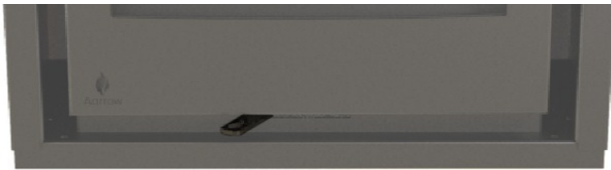
WARNING: The ash can be very hot. Empty only into a metal container. Even if the ash appears cold, red-hot embers may be concealed and could easily start a fire or cause an injury.



iSeries Air Controls



Wood burning air control position

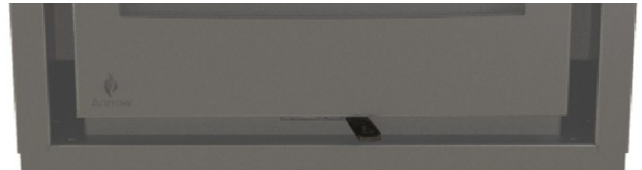


Fully Closed



Fully Open

Solid fuel burning air control position



Fully Closed



Fully Open

MAINTENANCE

SUMMER STORAGE / NON USAGE

Please ensure that your stove is left clean and moving components are well lubricated for the summer months (during periods of prolonged non-use). If possible store the throat plate outside of the stove. Check all moveable components at regular intervals, to ensure they are moving freely.

Allow air movement through the stove by opening the airwash and primary air inlet control(s) to about half way, open or leave the door ajar. This will allow a free flow of air through the appliance thus preventing moisture and condensation forming inside the stove and chimney. This preventative maintenance will ensure your stove stays in the best condition for the coming winter months.

ADJUSTING THE DOOR HINGES

Once the appliance has been under fire for a period of time the fire door may appear to have moved out of alignment with relation to the door aperture or catch. This is quite normal and due to the settling of the casting.

The fire door can be re-aligned as follows:

1. When the appliance is cold, open the fire door so that it is at right angles to the front of the stove.
2. Lift the fire door up off its hinges.
3. Gently tap the hinge pins to compensate for the misalignment.
4. Re-fit the door and check to ensure it now sits square to the body; if not repeat the above steps.

If the fire door needs to be raised, please follow the instructions below:

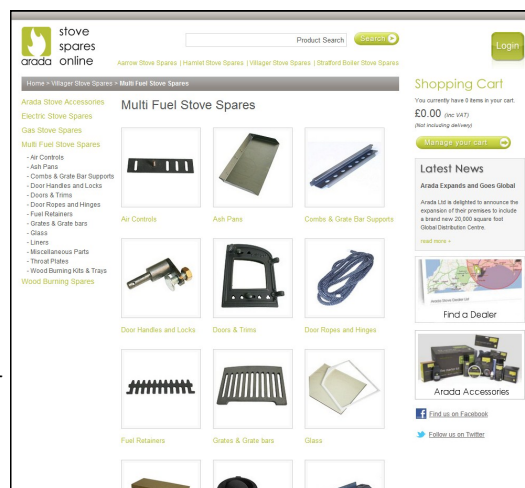
1. When the appliance is cold, open the fire door so that it is at right angles to the front of the stove.
2. Lift the fire door up off the hinges.
3. Drop one washer on the top and bottom hinge pins. Fit the door and check.

REPLACEMENT PARTS

As a leading manufacturer we are conscious of being able to support all our stove users with the supply of spare parts to ensure your continued enjoyment and warmth from your Arada stove. You can find a complete list of spares and consumables such as liners, grate bars and throat plates as well as items to enhance its visual appearance and efficiency such as Arada anthracite stove paint and rope kits.

All the above can be ordered from you local stove dealer or online direct from Arada at:

www.aradastovesandspares.com



Once again we would like to thank you for buying an Arrow stove.

When you buy an Arrow stove, you are not only buying a first class appliance, you are buying a commitment from us to look after you and your appliance.

Arrow stoves come with a LIFETIME GUARANTEE against splitting or cracking of the main body. The main body being defined as the steel outer casing and items fixed immovably to the casing.

All other parts, which would be subject to normal wear or tear are excluded from this guarantee. These include the firebox liner panels, fuel retainers, throat plate, door rope, door glass, grate bars, gaskets, hotplate and spigot.

This guarantee shall not apply to any stove that has been altered in any way, or which in our professional judgement has been subjected to misuse, neglect, accident, abuse and excessive wear and tear.

The guarantee is conditional upon the appliance being serviced and checked annually by a qualified heating engineer, with documentation to be retained and produced in the event of a claim being made.

Claims are not valid where installation does not conform to appropriate building regulations. The manufacturers decision shall be final. However, if your appliance proves to be defective as a result of faulty materials or workmanship during the guarantee period, we will repair or replace it FREE OF CHARGE.

USE OF SPARE PARTS OTHER THAN THOSE SUPPLIED BY ARADA WILL INVALIDATE THE APPLIANCE WARRANTY.

ARADA WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL LOSS, DAMAGE OR INJURY HOWEVER CAUSED.

All guarantee periods commence on the date of purchase and are non-transferable.

Our guarantee is offered as an addition to your statutory rights.

If you think your stove is not operating correctly please call your local Arrow dealer who will have the knowledge and facilities to help you.

When you call your dealer they will want to know:

1. Your name, address, post code and telephone number.
2. Clear and concise details of the fault.
3. Proof of purchase, installation and annual servicing will also be required.

If further information is required, our technical helpline will be pleased to help.

Please telephone: 0844 8475107 - or - email: technical@arada.uk.com



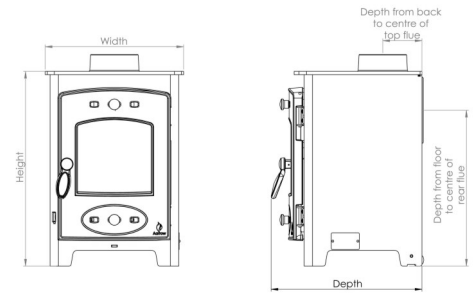
Technical Information

Freestanding

Description	Product Code	Output	Height		Width		Depth	
		kW	mm	inches	mm	inches	mm	inches
Acorn View 4	ACORN4F	1 - 4.5	465	18 ^{1/4}	330	13	360	14 ^{1/4}
Acorn View 5	ACORN5F	1 - 5	485	19	370	14 ^{1/2}	360	14 ^{1/4}
Ecoburn 5	ECB5MCE-S2	1 - 5	522	20 ^{1/2}	397	15 ^{3/4}	388	15 ^{1/4}
Ecoburn 7	ECB7MCE-S2	1.5 - 6	558	22	476	18 ^{3/4}	386	15 ^{3/4}
Ecoburn 9	ECB9MCE-S2	2 - 9	600	23 ^{1/2}	586	23	396	15 ^{1/2}
Ecoburn 11	ECB11MCE-S2	2.5 - 11	605	23 ^{3/4}	672	26 ^{1/2}	442	17 ^{1/2}
Ecoburn ^{Plus} 4	ECB4FPLUS-G2	1 - 4	535	21	363	14 ^{1/4}	365	14 ^{1/4}
Ecoburn ^{Plus} 5	ECB5FPLUS	1 - 5	550	21 ^{3/4}	431	17	365	14 ^{1/4}
Ecoburn ^{Plus} 7	ECB7FPLUS	1.5 - 7	585	23	465	18 ^{1/4}	365	14 ^{1/4}
Ecoburn ^{Plus} 9	ECB9FPLUS	2 - 9	600	23 ^{1/2}	541	21 ^{1/4}	365	14 ^{1/4}
Ecoburn ^{Plus} 11	ECB11FPLUS	2.5 - 11	638	25	625	24 ^{1/2}	381	15
Signature 5	SIGN5F	1 - 5	526	20 ^{3/4}	395	15 ^{1/2}	390	15 ^{1/2}
Signature 7	SIGN7F	1.5 - 7	557	22	480	19	390	15 ^{1/2}
Signature 9	SIGN9F	2 - 9	620	24 ^{1/2}	598	23 ^{1/2}	390	15 ^{1/2}
Signature 11	SIGN11F	2.5 - 11	694	27 ^{1/4}	662	26	468	18 ^{1/2}

Inset & Cassette Models

Description		Output	Height		Width		Depth	
		kW	mm	inches	mm	inches	mm	inches
i Series 400 Short	i400S	1 - 5	450	17 ^{3/4}	405	16	351	13 ^{3/4}
i Series 400	i400	1.5 - 7	558	22	405	16	351	13 ^{3/4}
i Series 400 Chair Brick	i400CB	1 - 5	585	23	445	17 ^{1/2}	316	12 ^{1/2}
i Series 400 Tall	i400T	1.5 - 6	705	27 ^{3/4}	405	16	407	16
i Series 500	i500	1.5 - 7	558	22	505	20	351	13 ^{3/4}
i Series 600	i600	2 - 8	558	22	609	24	351	13 ^{3/4}
i Series 750	i750	2.5 - 10	558	22	762	30	407	16
Ecoburn 5 Inset	ECB5MINSET-S2	1 - 5	590	23 ^{1/4}	546	21 ^{1/2}	407	16
Ecoburn 7 Inset	ECB7MINSET-S2	1.5 - 7	590	23 ^{1/4}	546	21 ^{1/2}	570	22 ^{1/2}
Ecoburn ^{Plus} 5 Inset	ECB5FPLUS-INSET	1 - 5	590	23 ^{1/4}	536	21	360	14
Ecoburn ^{Plus} 7 Inset	ECB7FPLUS-INSET	1.5 - 7	590	23 ^{1/4}	536	21	490	19 ^{1/2}
Signature 5 Inset	SIGN5M-INSET-S2	5	590	23 ^{3/4}	546	21 ^{1/2}	407	16
Signature 7 Inset	SIGN7M-INSET-S2	7	590	23 ^{3/4}	546	21 ^{1/2}	570	22 ^{1/2}



Height to centre of rear flue		Depth from back to centre of top flue		Minimum distance to combustible materials (mm)		Flue Diameter		Nett Efficiency	Add in Boiler (If Available)	Output to Room kW	Output to Water kW
mm	inches	mm	inches	Rear	Side	mm	inches				
372	14 ^{3/4}	93.5	3 ^{3/4}	-	-	102	4	80%	AIB7	3.8	1.2
392	15 ^{1/2}	93.5	3 ^{3/4}	-	-	102	4	78%	AIB0	3.2	1.8
424	16 ^{3/4}	94	3 ^{3/4}	625	525	102	4	74.7%	AIB0	3.2	1.8
449	17 ^{3/4}	109	4 ^{1/4}	650	450	127	5	72.1%	AIB8	4	2
485	19	103	4	750	500	127	5	71.6%	AIB9	6.4	2.6
479	19	141	5 ^{1/2}	800	500	152	6	74.7%	AIB10	7.6	3.4
436	17 ^{1/4}	94	3 ^{3/4}	-	-	102	4	75%	AIB0	2.2	1.8
451	17 ^{3/4}	94	3 ^{3/4}	625	525	102	4	74.7%	AIB8	3	2
477	18 ^{3/4}	102	4	650	450	127	5	73%	AIB8	5	2
492	19 ^{1/4}	102	4	750	500	127	5	72%	AIB3	5.7	3.3
529	20 ^{3/4}	121	4 ^{3/4}	800	500	127	5	77.3%			
427	16 ^{3/4}	115	4 ^{1/2}	-	-	102	4	79.4%	AIB12	3.7	1.3
450	17 ^{3/4}	122	4 ^{3/4}	-	-	127	5	73.2%	AIB11	5.3	1.7
512	20 ^{1/4}	122	4 ^{3/4}	-	-	127	5	74.56%	AIB13	6	3
566	22 ^{1/4}	131	5 ^{1/4}	-	-	152	6	75.2%	AIB14	7.6	3.4

Depth into fireplace		Depth of front fascia		Flue Outlet	Nett Efficiency	Mean Flue Gas Temperature	Mean CO Emissions @ 13% O2	Flue Mass Gas Flow (g/s)
mm	inches	mm	inches					
351	13 ^{3/4}	-	-	Vertical Spigot	78%	-	-	-
351	13 ^{3/4}	-	-	Vertical Spigot	79%	-	-	-
186	7 ^{1/4}	124	5	Letterbox style	79%	-	-	-
351	13 ^{3/4}	-	-	Vertical Spigot	TBA	-	-	-
351	13 ^{3/4}	-	-	Vertical Spigot	76%	281	0.52	4.6
351	13 ^{3/4}	-	-	Vertical Spigot	75%	276	0.66	3.8
351	13 ^{3/4}	-	-	Vertical Spigot	TBA	-	-	-
197	7 ^{3/4}	210	8 ^{1/4}	Letterbox style	80.1%	-	-	-
360	14 ^{1/4}	210	8 ^{1/4}	30° sloping flue	72.1%	346°C	0.58	-
190	7 ^{1/2}	170	6 ^{1/4}	Letterbox style	80.1%	-	-	-
320	12 ^{1/2}	170	6 ^{1/4}	30° sloping flue	72.1%	346°C*	0.58*	-
197	7 ^{3/4}	210	8 ^{1/4}	Letterbox style	80.1%	261°C	0.50%	4.1
360	14 ^{1/4}	210	8 ^{1/4}	30° sloping flue	72.1%	346°C	0.58%	6.0

Final Factory Check list

Quality / Finish	
Flue Outlet	
Hot Plate	
Fuel Retainer	
Firebox Liners	
Throat Plate	
Door Catch / Door Handle	
Operating Tool	
Stove Glove	
Grate / Fuel Bed	
Installation Guide	

Model:

Assembled By.....

Checked by.....

We recommend recording where and when you purchased your stove for future reference:



The Fireworks
Weycroft Avenue
Axminster
Devon
EX13 5HU
www.arada.uk.com
www.aradastovesandspares.com